7.6 **Learning Opportunity**

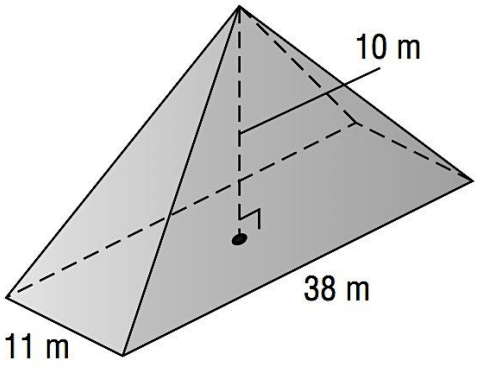
Volume of pyramids and cones

Name: _____

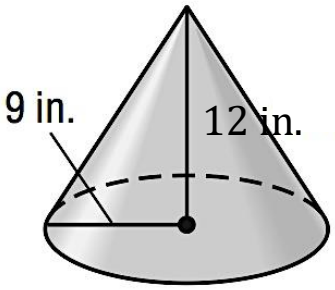
Find the volume of each pyramid or cone shown below. Formulas are given below. You **must** write the formulas you use, then substitute the values of the dimensions. At that point, you may use a calculator for your computations. Don't forget to include the proper units in your answer.

Area Formulas: Triangle Area = ½bh Parallelogram Area = bh Trapezoid area = $\frac{1}{2}(b_1+b_2)h$
Circumference = πd Circle Area = πr^2 $\pi \approx 3.14$ for rough estimates: $\pi \approx 3$
Volume (prism or cylinder): V = Bh (B is the area of the base shape)
Volume (pyramid or cone): V = ⅓Bh

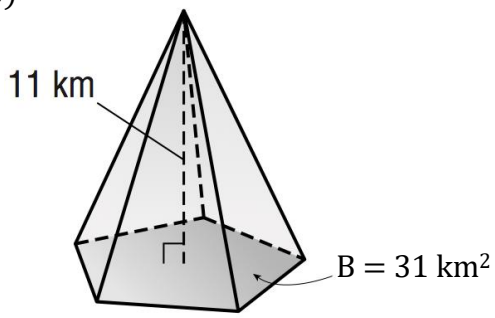
1)



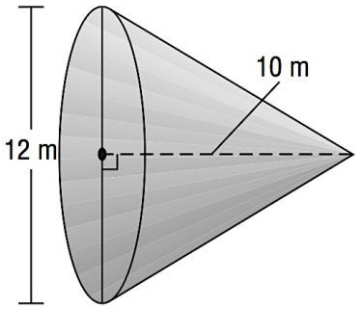
2)



3)



4)



5) Find the total volume of this grain silo.